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EPA FORM 2070-12 (7-81)

EPA Region 5 Records Ctr.



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V	

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

1. IDENTIFICATION

OI STATE 02 SITE NUMBER

140 980 898 738

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Federal S.I.A. # 026.78						?		

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENT.

1. IDENTIFICATION
01 STATE 02 SITE NAMED
1 LD 950 898 7.38

YEFA	PART 3 - DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENTS	17773	20295 192
IL HAZARDOUS CONDIT	TIONS AND INCIDENTS			
01 XA. GROUNDWATE	R CONTAMINATION 458	02 (J OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	X POTENTIAL	ALLEGED
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la again Ti	his practice has i	vaste placed for dispo impacted private wells a	+ similar	- facilities
i = gook.	ing processing the	7		
01 XB SURFACE WATE	ER CONTAMINATION	02 TOBSERVED (DATE:)	POTENTIAL	.: ALLEGED
03/POPULATION POTEN		04 NARRATIVE DESCRIPTION		
Ground	water disc	harge 40 Surf	ace i	Cotor
Firec	Subject to	harge 40 Sorf possible floc	ding	′ 1
01 E. C. CONTAMINATIO		02 C OBSERVED (DATE)	POTENTIAL	C: ALLEGED
03 POPULATION POTEN		04 NARRATIVE DESCRIPTION		
ALC: D. FIRE IEVE OR	# 00401704B	00.77.000000000000000000000000000000000		ross
01 (i) D FIRE/EXPLOSIV 03 POPULATION POTEN	-	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C: POTENTIAL	∴ WTEGED
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01 (E. DIRECT CONTA 03 POPULATION POTEN	=	02 (2) OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL	ALLEGED
		,		
01 XF. CONTAMINATION OF AREA POTENTIALLY	ON OF SOAL UNK	02 (I) OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	X POTENTIAL	. ALLEGED
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been not	ed at similar 3	sites.		
		OZ LI COSSERVED (DATE	see 05 0+	har following
01 M.G. DRINKING WATE	ER CONTAMINATION 458	02 LI OSSERVED (DATE)	POTENTIAL	ALLEGED
	See A above			
01 TH. WORKER EXPO	DSURE/INJURY IALLY AFFECTED:	02 CJ OBSERVED (DATE1	L POTENTIAL	ALLEGED
US WORKENS FORENTI	ALLY APPECIEU.	04 NARRATIVE DESCRIPTION		
01 GT POPULATION EX		02 Li OBSERVED (DATE:)	[] POTENTIAL	' ALLEGED
03 POPULATION POTEN	ITIALLY AFFECTED	04 NARRATIVE DESCRIPTION		

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION	_
OI STATE OZ SITE NAMBER	7

PART:	- DESCRIPTION OF HAZARDOUS CONDITIONS A	NO INCIDENTS	<u> </u>
IL HAZARDOUS CONDITIONS AN			
01 MJ. DAMAGE TO FLORA 04 NAMPATIVE DESCRIPTION 7/1 //Acreased soi/	ozciosserved (Date e near sterilization of soils salinity, has been noted at a		nated to
	(See F Above) (See 05 a		
01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Module)	O2 ☐ OBSERVED (DATE:) DOTENTIAL	□ ALLEGED
01 [] L. CONTAMINATION OF FOOD 04 NARRATIVE DESCRIPTION	CHAIN 02 OBSERVED (DATE:	POTENTIAL	C ALLEGED
01 () M. UNSTABLE CONTAINMENT) POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFE			
01 : N DAMAGE TO OFFSITE PROF 04 NARRATIVE DESCRIPTION	PERTY 02 Li OBSERVED (DATE	POTENTIAL	□ ALLEGED .
01 C O. CONTAMINATION OF SEWE 04 NARRATIVE DESCRIPTION	RS. STORM DRAINS, WWTPs 02 OBSERVED (DATE:	POTENTIAL	O ALLEGED
01 XP ILLEGAL/MAUTHORIZED DO OF HAMATINE DESCRIPTION Site was introduced been been been been been been been be	equently inspected by regulace filled making illegal dum	atory agencies, ping hard to det	DALEGED Facility ect.
THE DESCRIPTION OF ANY OTHER KI	nown potential or alleged hazards soils by brines is deemed eral IL. counties.		
III. TOTAL POPULATION POTENT IV. COMMENTS	ALLY AFFECTED: 458		
American foi Address Un Fairfield,		rifermation Go on ERRIS (s appear
S.I.A.	<u></u>		

EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevent to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy meatals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by <u>USEPA legal staff seems required</u>. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22

